

Page 2 FIWIL mundmart $\qquad$
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Pige THETH TF $5 \cdots \cdots$
Page Fron Neatie To PC bifl - - - Gemn Hisom, 5INO




SINCUS MEETINGS: wED. JUNE 20 VESTAL LIBRARY WED. JULY 18 VESTAL LIBRARY
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SINCUS NEWS P.O. BOX 523 OWEGO,NY 13827

## POKEs

HI REE by Fichars Teylor, PFISM in bachine cote graphic utility that will knock your socks offafter wetching tre ART on the old 2XBIyTEIK40yTEA56O.
 tiny little pixels that yau can controls.smore or less every one of thereit.
You plot the tinu pixels, design your shepe, draw it or thewe the computer do it for you.

With $x, y, z$ plots you call have 3ut.
You can iesign your cum characters.
your owit alphabet, atut wake the characters mone about.
4 soutids too good. atell. it does a
lot for the monely, and tones it Hell.
There are à couple thirrss you cant ano and COFY and LFFTHT are a coupie.

Ecme pixels are wider than others,ant others dont print at all.
minor glitcines in a supert piece of progranding:

The resolution does look better than that of the ebte.
I hau tried to shot a demo procram at
whe way meet. but it crashed Ewerytime:
I forgot to poke ill a number to lower finditup.

II 11 heve it at the durne met.
I a a geting jomper up with prograws tri review for the inter and just gnt
 and overtine at uork alway picks up int the sumaty.
ZXLRE by E. RUsseli Electronics is one wos procrant.
first you calibrite your recorder
with the first program, and tren you can run the zXLRE at the fastest speen your recor der call error free incidy
A recorder with aligned head can do lew Iobl in Ent secs.

Hou can sewe DATA;graphics and musioners.
Eetueen the HI RES aTod the XXLR y you allaget have uhat the 2068 can do:

## E:E OF REVIEHS

G00 NEUS from Eary Emis. on the Tire STH wat I know are all wish these peopie Hell, atu that the thole incose try contimes to thrive.

We were probabily one of the first to get this mews.
The tisy met sew the slate of nominees becone the text yearl s officers.

vice presitent. Gary cole
Treasurer . Elem Hilson
Finamial Eecty. G. Knickertorker
Fecondins Eecty. .Paul Hill
Trustee a Fichard Petrak
Trustee, =uloh Silas
Les Errozouski gave ati interesting t-elk on the Icindime procedure of the entos, and hou it effects miaking the priated Eackup taper.
Wow thint some progan cost in the sut adiar range, you want some protection of Hour invetant.

Recorder to recorder potential was also featured.
Hany iuteas are starting to ecme into blocm, the wrustif project, the chess matcher and the sales of tapes ath paper.
He are rapidly becoming a eats computer Group, but lets mot for get the 1 entios, we need your infut as well as everyone elses.

Mew members coming ith with the 10 and meed as much help as we did last year about this time.
I would like to get a couple wolunteers to copy the sirkts charter, programeine tips, arm back features of the simbus telis.

This would be civen to all new
aembers, either a taped copy or hard
copy.
Anyone out there with a fullsized keytoard with lats of time tokill, see me.

SIMCUE gets aidil frow users aroums
the globe:
Latert from Carayaca, HeTezuela.
Thanks to Sten Livimgeton and Ars.
Richard Petrak, and tine spanish
dictionary, ge got the letter and
reply traiclated
When you think of the protleme we have getting prograws ant compilter parts: imegine the problems in other parts of the world.

Helcone to the new enchers, tell your frients akout us, atat bring them to
the next meet. dille 20 and Hiry is Es THEFE.
here is a fey pussles to chew on. the following letters are based on different forme of progreseionseg if you can finish eack one:

E.W,T,F, E, S.E.
3.D,N, D, E, $\mathrm{H}_{2}=:=$

4, c, d, y, 酸, d. . . $=$
If you have a bucket with 700 dollars worth of silwer coins,and it is in clarters, half toilars and dollars, there keing an equal nimior of each.
how ally of each are there.
thank, to creative combuting, Der: 1930 for the iteas.
another user croup heard from, wase that two groups, 1 , is from the morth dersey IVyTs users Group, L. W. Burkhart, 13 Chistopiner Stationtelair, Mi, eru4z.
They are interested in keeping the greinads going, and want to kuy, sell,5was hard 50 oft thre.
e.copts, clackamas county prea $T$ Users Eroup, sent us their newsletter, atu we sent the one of curs.
Copies of newsiftter swaps will is ported on the bulletiti board for all to react.

 in rather a swifu tore "ithern jut
 105:"
"The quetion is", sid mide, "mether




## LEwis EamqII's



Ir the inet then parts of this discussiom, uerve seen that the compiter
 THMEETS; it it cinoses to igmote reajity, thefe's nothing thet be can do aiout it. Mur only tetenise is to be aisare ct time Cowptiter lizitatinig afta avoict then frawert ve catis If we don't, the results
 Eetion the icraking glass or cum the rakkit hole.

DTE rause of tio "BRTCF will" is tife fact that the campiter uses only a Ijbiten Thuber of cigits tce eapress a numbers Anty Extré digits in a result juet get "chopped offr Last time He saw thet changing tife order ct a miltiplication and division coula determioe nivither of not the tur
 that cculd determine the outcome of a procrain, it's comerti with twat in wint. IEt's detine:

## 

Aud using = of with rumet in an $F$ statafent. [IT: \% for stringl.

If you onily use ittergers, and then oniy to ader, sustracis, of plliplies rno divider! 1 you can protably ignoqe this rule. Ignoring it in any other case could be trouble. Inteag of siuing If fi= THEA
 THENe: Hich fot only fasses if $H=E_{0}$ but also if $A$ and $E$ are within oreat of ore aroother. You can, of ccurse, modify this fos bhatewer tolerame sod meed.

Interertingly empugh, the prodem :n dial Iast time only "fouled up" the TsIase not. the Tientis. The Thende aireaty has a 5all tolerance built imto it, kit it"3 not hard to fipt inetamcer where this "fix" causes prowle of its gums Firsiz. letis lock at a caes that will contcurat wath sachines.

In the first part of the series foumd that.


```
2
2 NEXT 
```

rume in a flash, but if He change the STEF 2 inta sjef 1 it mins forever rom both解chinerj. In decimai, the wathine cati fairly accurately represent miners that are akeut ie digits ICTry, If we 90 too wach larger, the iess significant part is just. choppect offis The mumers in our Fow thext Iocp are 10 digits lomes, and are ini the "dangern zone, The manier $e$ is just barely large ermugh to be acoled to those tulters yithcut beirt chopped off; the number i is fot: Thut, adiffy i gives the same mecuit as additig $0_{\text {a }}$ wich gean that the firial count is fover reachea. This kringe us to:

## 

 wery silll micers.

The next prowlem cats devontrate both the "rcuint offor error" itithe TEantion that
 fekl problem, nat seeti before. For either machine, ENTER:


Hiat the prograp aris is divite 1 by
four tines atur wiplies it back by four time. Matematiceily, $\quad$ stily
 Trad.

Wuy let's foul up the ewas. Chanse line to trift c= ath satisfy yourseff that this sfrodldnt thatoge the result. if sillyly milliply atut divide 5 time, itctead of 4s The mitiplier and divider
 Eqial E it the erat if this is run on the
 which is comtect. H TSente will give il
 up ton i ame primeen it on the screeni, Even thaciqi it is sijgitiy Iess than il in the machive mereis an itstance Hhere the cheor gives a roumanif ErTor wore easily thath the TBinat The reasom for the erfor is the radit-ofy that, like

 score

The promain iecomer brat interestimg thalo whet de charge line 30 to LF!


 but hen fiditget ta be i? IT lines 4


 nithragis it's not cheicus because the progran user failicsfall mutiers, this is juet a bit larger then followed by sf Zetre. This is a berze lage Tulater aro dividity A by it prowlice a VEry small fuster: Bince the computer uses oniy a liwited mumer of wigits, the kert it can atc is to select a manter that's close to the anewer. In tive case the quotient is Prathed dow to yetris Then, in lines 7

 He get TR Setistattion, berause mitiplying antathing times zero stivi give is fert: Traters thet old buct Hill agant This is really a violetion mi
 vererter a fet rile:

## 

## If poside iffime the of of of  hanging al me hidely that the <br> your the

In this case, we cruld have alternetea the multiplies anu divides. It wadd not only have simplificut the proryain, jut in wheld hever hawe getten less than about 1N. It mey mot hare given us equel as a

 to apply all of tire rules at once, the Pr"craff works.

This pretely mach comelues wy dicussion on conputer Tule as they apply to our pechines. It is is TH Eanc ccinifete; it hereiy server as a starting point for thoce ura are intererted in accurate procrane fant wiso doll't like sup-isesi. Fot throse who hawe
 like to knod ure, I'll be glad to discuss the subject with yau at any simpt解etimg. In the meantise I hope Ey "flifes" mint help to fake life juet a bit fasier.

UE PMTUKEI
SITH:

$x=0$
$y=0$
$j=0$
$i=1-z$
$j=j+i$
$x=x+E$
$y=4$
$z=i$
$i$
$i$
$i$
$i$
$i$
TO ETEF - 4


## TIHEXUH

## WWII WORD SYNC II

 THIS IS ON THE SCREEN PTS TO MAKE F BOARD FROH A NE GATIUE，ELEARHED THAT DIRECTION $S$ CAN EE INCOMPIETE AND MISLEADI NG：ZHAT FOLLOUS IS MY METHOD．亭 DERIUED IT EY TRIAL AND ERRGR oUER THE COUREE OF MANY NIEHTS． Q DEAENAECESEARY CHEMICALS CAN

 OTTLE OF DENATUREE ALCOHOL FROH AMY DRUG STORE．EHE COPPER OLFD BOARDS CAN BE BOUGHT FROM BATE
 MOT POPLE DONE T GENERALLY HAUE A fE DAILL BITS THAT ARE SMALL ENO LEH，MAKE THE CONNECTOR UHOS E DIRECTIONS FGLLOH，A DRILL BIT
 FOR THE ALIGNMENT PINS．E B B AUE MADE ANS EXTRA NEGATIUE OF MY MOURINCLAIA 1080 CONNECTOR A ND HAUE PUT IT IN THE ENSETB LIE ROU IT：FOMKING NEGATTUE IS A SIMPLE PRIJIECT ALSOY，ZOR THIE CONNECTOR，DOUELE SIDED CDPPE F CLAD BGAPD IS NECESSARY．SIX SIMPLE STEFS ARE INUDLUED IN MAK

玉
＊＊＊＊＊＊＊＊＊＊＊＊＊
AFTER $40-T W O$ THINGS st́art 10 Happen
1）You START FORGETTING
THINGS．：。

#  <br>  



## PRFFPE

 board trata a negetive．I learned that directions can ine incomplete ame isleading．that follows is $\mathrm{m}_{\mathrm{m}} \mathrm{y}$ acthous．I deribed it by trial and error ower the course of mants nights．

The recessary chemicals can be purchased from untianM Elcifinics and they are：

THPE＂B＂ETCH RESIET SENSITITER
＂4EGTINE TYPE＂FL EGTRE DEVEIOPINE sollution

PC BUARD ETCHING EQLUTIOH

I also recomena muling a bottle of denatured alcoizol from any trug stere． The copper clant voards cati be bought trom LNTCORN 日 FCTROWICE or from Padio sitick．
The only other items wich not pople ion＇t generally have are arill bits that are swall emough．To make the connectcr whose directions follow，a sill bit inez diameter［＊fej is needed for the aligment pins．

I habe atate an extra negative of zy TPEX－Sinclair ieder commector and have put it in the sontu library for anyeme wiro wamts to borrou it．IMaking a negative is a simple project alsol．for this commector，a douk．le sided copper clad board is necessary six simple stepr are imolved in making the commector；

 is much easier than it soumts＇

# FWM NEMTE TO RC EAP 



PREAE
During 铞y first attents to meke a m barod trom a nequtive i learmed tiat difecticne can te irucluplete arut
 terives it by trial atho ertot guen tia


The Recessiny Chebienls cen bex
 are

TVPE "E" ETLH REEIST EENEITIZER



FL BugR ETLHTYE EMUTIOd

I siso reconimunt buying a bottif of


 Tre onis otiver itelle unich wot pople ion to Fintally hawe are trill bite that are
 directione foilous a atill bit a
 aligrient Fins.


 Hants t-E noch ito inteirg a negetire is a simple project aleol. For this comitetrar a toukize Eiter eoppar claot
 ithuiwed it mekirla tre commettor FFFFHRMTILN, EXIFEINE,



## PAPMATTIA

But orfe cof tif trinie sided moards tis


 holee to bos re tic. Detir the hoies;
 sice ct the imgedz Ciean it wite tenathrelt alcrinoi aina "pleenesi tuse paper. Let it atro.

## sentirn

You cen try tine directions on the ran but. I drecmetioncertifely different: put
 Isque of Hinch I'uE lett Hith the TEGativel in the tur hoies follt ties band werticin and spray oTfe side wery heawily anw continue halding it until most. of it has run down te ore edge leswing a thin unitor coating on the surface. Hioc the botton entar off aint place in a very flat position in a fert dart cufiogry for 4 hourse or more Take the koard cut ant Pepeet the sape orracese mi the othet side, pot expoibg it to cunlight: A s.mall aircunt of incadeseent light wacst't bother it. \#uch.

## DFISTM

Place the regetiwe or the boars ouer the aljgment pins entlsion side dom [shitty side upi]. Flace at piece of glass on top of it to hoict it fiat. I I even pat a cold chisel on each side of it to hols it flat. I If it is pot flat againet the basid, utsharp edoce uill resuit. I expose me moarte to tho Eylvania gernacydal sath lampe placed about it $1 / 4^{2}$ high. These can be bought from hinitestif B FCIFIL End shoulu Tot be looded ot hilis on!! Incitentally there nike an ExCellent EFACt Eraser. I ap sire the sun, that little of it we get in Ercose County, Hill Expase it fiter. TEn wintes Hith the ESTS lamer works well. I am not sure hew long the sun would ide. I no. krou that longer than necessamy will burt it protiding the cpposite of the baird daes not hecodre exposed ith the process.
The secom side shotld be exposed like the first. with the same fegative bu flippipg the bard end cover end under the fegatiue.

## WEHITHIN

USitg a glass pie plate of other suitable cont-ainer, pour errugh deveicper ifl it at room temperature to coat the boird. sukerge the board for a mimites. 1 Ire is tom short, arm $21-2$ is too long: Every 50 cften, filip it ower or hold it off of the bottou so that kath siter get developeat Evenily. fiter e zimutes, rine it for amother couple of wimuter in water mearly the same temproture. fumning ivater or Even abrupt moveente in still uater ant wash offf yrut image-be gentif: The bard is now no lomer light seneitioe. EEing eareful not tre tedich the iman, lean it up againet soenting to dry. I have noticed that the weveloper bay le uezion


## ETHITH

The inetructione on the bottle say ira ter 2 hours. I fine that if I heat tive etching solution so that it is barme to the
 Fut a genercus awount of etching solution in the plate I hate pound three warisles etfert the etehimg tien ole is teriperature, the seccort is amount of solution, and the third is agitation. I agitate the baars continucusly keime careful not to rut offithe image until all urmanted copper has beer washed off: Rime in ruming weter.

## FITISHG

Let it wh if eg tesired. Cut to siIE athe trill the conmecter holes with an arproptite wills cut the slot. [aetur ampalish with a fine steel wool to rewowe the etch resista wria That uasnt bad, Has it?


# WHERE DO WE GO FROM HERE? - Wes Brzazonski 

murercith the sucath disappearame of With sith
 with each air ue sezuing less lisely houbapasing aigs it bay seet as falle apam wothir port harket has frow the truth:

It is centamiy unilikely that the
 it's feytay kut Ints of Feopie will stili be thrjlled to prouide sul with suppert.

In the area of harcture, look to的teーRack ath Iexa e radiresses in previous issues of sintit trisi.

Situare [of Hot $\bar{z}$; et ail is still alive and kideime and has a Tianes Wetsion of hot ${ }^{2}$ that's flite nice, depite scowe kuge]
freal pleasint surfoise is frite, dBE45 UaTi DHE Frad, ttica, Michigat 4ian7, These tolks have been around tor a thile, having tun a higivy unimpressiue series of ads iTi sinte. Theit cavalog
 offeriff their gmin wery coublete line of har dulare and southare for koth Tsiandis ath TVOQE's, they'fe offeritrg cuite a mibiter of cane prowucts that were E-iginilly trsigned for the spectrun in Englethe These iriclude the ficharo Shephard adecture gates line, mimerous arcade and adenture gates by quick silua, ame the Tassman har inare and softure form urt d processifig. If thete people cant actually ship thety tre offering. theirs is iefinitely a citalog to hates EEt Dise IET TMEte-I majled an order for Tasuar on hay ze iTd received the software on Hume 4! !! I tawe or iered 4 \#Cre prog ams ajus hofeftilly they wili artite in time for the virfe meet. I

Sptaking of Engletut EGQ Fublications itr Lointort wrulid be very pieased to semt you amt or all of theif magavimes. Sinelair LEer, Bimiair frograma rem Sinciair frojects. [The club library has a copy of eich check iewi cut! J Their orerseas rater arenit cheap, but their Gailige are of hist qiality. Their Swectrua prograns look like they shroula ruli on a Tisen, and the $x-31$ promaje Hill of course, rut on the twiade. rsiade culvers sinald recarmize these
 prounct yelators. fity request for their
mersear rates, alomg with some adoitionas quertiots brought an itroredibly fast. personal reply irese could ke uery nice PECQIE to do kiziness uith, and they stili plan to be arcaind for a while. phot the had teus; their crersens rates are about twice their wamestic rates:

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SINCLAIF UEEN [RCTthiy]
23 pcarmes per year.
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SIthlimp Paincoht ImonthlyI
323 pratuis pet year
SIMtLIE PEDRETS [Ei-monthly]
10 pcalnte per year

Yes, folks, thet is Enitish poulden That is that they preter for motey ouer there: Hith the exchame rate beith apout
 They'Il be gind tri charge your credit card, at whatever the current exchangre rate is, otherwise, fou'Il probatoly have to fima a kank that. Eat give rey a cheque
 to seint for a suiscription, the cuerseas POEtage on your irs puTCe ervelofe rij [ome shett. of papet in a biseiness size Emelof will hake itil is 40 cente.

##   In ingtan Londm Nin

firomg the remaining hrer ican publications, Siltax is still going firticles tent to ie short, with extranemis material cut cut, so conpressing a lot. of information into a Wery small spare. They sete to do vell ith coveriff a wict range of interests, frow heipimg the begimer figerre out hoo to turn the machipe mi, to int depth techmical iffor-bation. There is usuilly one page of actual गews, and EMMthef of imformetion ort what varicus wentras are doing fuery usetul there ctays. The rest is articies; procr awe, rewiews ant ade. Thalghit is a 5mil publication, I, WE alkaytis comeitereu it oTe of the bett. uHet latelu, they have begur to pffer six wonth as well as I year subscriptione They publish morthly

Smm

\$2" per 'féar

They tereme cur suport and tue neat their SETFiCE.

Tur new publicatione are avoilate: but I've not SEET Either one It anyore has, please let us know that fru thime The first is TE EHES, 67 Elw Street.
 yearl. The secont is called EqSitc, 37en Biscayme Boulevaru, Hiawi. Flor ide zila? [12. GS per year, ent if you enclose int

Criginal，usatle profram．you get an additiotiol E issues freel．Once asions I＇We nt seen either orre，aind can＇t wouch for their pielity．

Find，in the＂Lact Eut Not Leare．＂

 to take calt a．ts in our mevsletter． Heytre got a good line of both hardiare atte sortwire；aint are our elosest equivalemt to a local dealer．Let＇s gipe thee our support．
fore for a courle of quertions to the audiente，Trere uas，ill the not too distant part．a newsletter farmattex Puilicatim called TS LSER InOt to te cantused uith the magnime TDEX－Einelair iferf．It seeme it was about 4－s pages it lemgth，pffset．printed ofi tan paper，ana ofite micely wone poes alyome krat if it is still arcurat？

Secombly，thelvarme touse，a ventor based ith Emglatu，arm quite active there seeve to hate vanished frot the faerican sceTf．They＇ve promkiced that has been regarded by manty as the ultilate ackenture
 64，as well as seterin British ccoputers： such as oric，priacon．and，most i arfytre kiru if the spertrun wersion will run on a fasa［scme spectris tapes will］ or if a ades wersion the Ewer prouticet

If athoute has the af7neuer to Either of there chestions．of kTous of other putblications or prinkicts that aight ise
 I＇Il hake sure thet the ward gets spreat arcaitus．

In the wantime，there is no need to Le curting for the luss of the third party mirket；it is still there．If we watit te loce to sone scrt of silver lining We should reflect of the fact that there＇s LEETI $2 \pi$ II awfil lot of garbige sold out there：This shakets is reallu reworing those whe shraldit have been in the arket．in the first fince．utfontuntely． there are alsc some qlity praducts that Hill hewer returp Mive we will have to lite with．Don＇t forget thet the ioformton yau！rean here is already a month Old［FD，制if－We try te edit it to make sure it is up to dete aTod only three daye ald when yad get it！！！1 Hile sone veladere will prokatiy last a thile，others wing go unter uTexpertediy． 50 if yatire intererted in a prombet，nou is tre time to kuy，ajat fon＇t forget to share your KTKuledae ath intorention with us．The ECtE all kThe the stronger cur groum Hill be，and the lotiger it uill lact．

WE BMWMI
10 FER $f=$ TO ES STEF . 1
10 FER $f=$ TO ES STEF . 1
EO PLOT EHYETM $1+125,1400 E+$
EO PLOT EHYETM $1+125,1400 E+$
Eシ
Eシ
$3 \mathrm{~B}^{2} \mathrm{NEXT}$
$3 \mathrm{~B}^{2} \mathrm{NEXT}$

# － 2068 <br> 10 FOF $f=$ Th 254 <br> 20 FLOT i BROSIN if 10 D ＋ 8 <br> 30 DRAH 10，D：DRPU－10 ： 

## $\rightarrow \longrightarrow \rightarrow$

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    25 EGFDEF 统: FAPER 4: INM i: E
LS
    50 FOF =0 TO 254
    EN PLOT F, BIN if/10! +EE
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8!
    70 NEXT I
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 by THE

Simair buther bex somety F．O，bue 35


And Wrowineme of article shald te sent to Gary Emis Editef，SMCB IELS F．O．Eux 50 ［4

All atticer are the ofinion of the ath and not necesarily the chimion of the mentship of SNOM，

ETI on Puil Hin
flif hill the been the fall force that has Kevt sindut quing thruch it＇s first tur plus wars．Maty will rementer faur sterteq coliecting thate of perpie

 actively prowoting Eircte？hell intrani was intine small mall ith those deys am
 Whtering fou te get a 1Ex Rinl！Thery Wer＇e Putorty you migh be akle to get a out


 ［TIEX repotediy kilit ome fill for Every four conpiters！I am the rumor aill said You 昭ight afe de to eget one of these Sinclair thetan prituets in a few monts It wes int this atorsphere that paul Hill led the $\quad$ ive to orgnize a local ugers Foup：his terure as freeident has been Yery protuctite anh tota＇s＇s lively froiz is we largait to Fiul＇s comitment to the clus 50 Faup，or Eetaif of the entire
 Putilicly that yout for the effomt aro
 the cius．FITH now that youl are just． Fiverdith secmetary lams take care of

 the clue comerporidicej－your uife has e中uertian akout the fot water heoter：！！！

## G10 The met tur fewn！ <br>  <br>  <br>  <br> 3 IETMRIE BM <br> A wh muese for the en <br> 


duly $x$ is the date of the first smumi pictic：Figilion wa，Elendale Fark， Gietulaie foad．Emicgit．Esee map in this feweletieris liut is providing charcoai； paper plater，fuctins＊outbing a uish to pass，silwerware，keverage Iwe have a begr
 tomatioth to defer equetees．In exchange fot your wortation rini increments of \＄． 25 a cou＇t of your momership will be placea in a box，from wich names Hill be trat？ for acor priles－ranelly software for both the Zx －3I and RaEB！REST CF FLl－your entire fanily is Helcome he are not sure if we will be playipg ecfthall，but we Will have tur entais there rumity a tarifily of entertainimg program．＇保： Will hue electricity！

## Fir the Ther Pliges

Siturdey，wure 2 ，her a fun time Eforal Matiotrs shcued up à star Duy cleaners ith
 two enose $2 x-31$ inctiming hastar ［hese］defeated Tx－＊i II［riming IIMEX


 Fixicu＇s Haster Chess］ith 27 nover．Hach tharss to Ted korarye wo teamed up this idea ajot crordiviated this tay＇s activities．We are mud goitry to plan a
 the wisibility of the ciub．AII compater cluns amd chers cilins will be imited to participate BUT，it is bachine UE＝ achime rume corfectily sotture vs． softuare！J，no humate are alloued to plày the compinters：fout can brime a computer or a＂computerizect chese gaice＂，Hetsh for OCHE details in the months ahead．Ge GatioE，I accept wolumteers to help pit it cm

## 105 Grup Exhang

He receiver a taie frow Cincimati uith a datiofile of the uex cropure in the UE， that ruts on Uimpile．le owe then a reponee，and yes，fick konsom，it is in the works．I will heve it te you ky dily 1．
frother fecpone to me article diout a network to distribute imformation to ueers
 Where a list of user coups is being kept．
 A sperial thariss to kirghten GutpuIERE， Who in adotition to their actertising have tomated two pietes si zena sotture itur ore at the picnic＂EIF TPELE＇J．Hlso got． a Perconal anewer frce Tou Woous and DATPDCH．性t thate to these tompnies． HCu catr see wis cartesponkerne on the cIut bulletin warc famether of faulitilis jotse new that he is retirecil

If ary user grade wiante to try the chess thaillemge idea，te strothly urge yod to hate a trial rah－scme very complisifg thimgs can coler up．He fithally decided that the two comeuters would be kict to back．The operater weuld ammome the wowe his．mer cospuier was bakitiga The other cperator would then enter that wowe in his computer．Fi third person wouid wate the appropriate wote on a chess bound that Has set up betweyt the compiters－so the kikitzers could see uhat was going oni batien could be saives atad ther［from a primout of the wores a midgame situatimen could be entered to the computers to let． the play out the gawe rto the saer recult？Challemge all those guts－ser the will haul their fl dorm and take the chance of seing intifiliated by the＂black baxt！？

I have a ensuman fand enthusiactically EThtorse its parchasel and subscribe to
 जint other grodes arguth the country you cial reach we using E－MPII．You can find 컥 personal imforeation listed in the Suker iber＇s Directery［10con and En PLS－E II thirw，I ar separated froel wy caprisefu mamal right mous．Y．You nay u5e heth－4
 will kToy hrat and for you net guys，why do Yed think you get 5 free hours－it．＇s to figure stidfi lifet this cut can youl see the day when all you authors can file your Teweletter articies with the Editor ulng E－Thill：

## 

A subs cilp of peqple interested int Will have a definite Reetimg schedile ant place，once a project is scheduled．There Will be wre on this at the meeting．

## FITMN AIL Likary Hiterials

please return all library materials 50 ue canfigure out what we have and what we neEd．

I will asking thase peofle with modems to fore a suhgrcalo ant develop a clut ccedunications neturk．Personally，I Will，if the harimare hackers can teach In te solder，be kuildinf I？a modetir This will per int we to mantain a twenty－four frour a day kulletilng baird－one on gt howe when I＇童 at wark，then on the work phorite then I ak hoter．Eut we are gring to JEEd sottware，ete． 50 ue can easily get primtcuts，wake saver 专 loasts，and etc．

## PLTTinim A Corse for SHUN

Lockitrg ahean to this sumber anum rext fall，SINHL心 is alive and tell and woing fe the few FTESitent I would live to prinlicily actroctletag the inediate past baid of directors for their active leadership and comiternt to SIMCits．I Welcoer ichm Sims and Eerry knickerwocker to cur board and loce forward to worting With cher in the womtle aread．For the
 time at the mettings．The weetings are getting 50 full of activities that we wili he conceimasiy structurime them 50 everyore gets a fair chance．Ue do $25 k$
 prten in shall crapp＂kyll sessions＂ prectione are raised that the entire group would benefit tromearifg．With this in备Th，we will be providipg Z
 Also，we are locting for $2 \mathrm{X}-31$ demos．I kTret ihe exes is exiltitig，but the cionl Ithis peucletter is still produced using
 viable compriter．It oniy drabtack is color．Hell tho reeds to see their cheritoook in color，plas twen yon only have one colo TU that colo ${ }^{\circ}$ wher your computer compute in foren the kids want to see＂Thy＂f＂fent＂？5es you there＇

1 REM FICK JOHNEON CINCINNATI OH
R
Ef
5 RIGH INK 9：FHPER 5：BORDER 4：E
 EAD a：POKE USE＂越＂+ b，a：NEXT b 30 DमTH $0,0,60,65,255,125,2 E$ 40 RESTORE 4 ：FOR $\mathrm{E}=\mathrm{Q}$ TG 7 ： F EAD A FOKE USE＂L t
 EAD A：FORE UEE $C^{3}+5=\mathrm{NEXT}$ 70 DATH $2,0,255,0,05,25$
 90 DFTA R， 0,240, ， $2,25,4,25=$ 95 PLOT 70， 90
100 RESTORE 110 GOU
120 READ $x, y$ ？
130 DRAW $x, y, \%$
140 NENT b
150 RESTORE 12ED
150 PLOT EE，EO
170 FUF $b=1$ TO
1ER READ $x, y, r$
190 DRA $x, y z 5$
EOD NEXT K 18 ， 150 E
E10 CIFCLE $1 B 0,150,6$





3DD PLOT 3,1 E
310 RESTOEE SED：FOP $5=1$ TO 17
READ $x, y$ ：DEAU $x, y:$ NEXT $b$
320 DATH 240，0，$-10,-249,0,0,1$
（0，25， $42,202,2,2,-42,-40,0,-20,4$
$2,35,0,-13,20,-174,0,-13,-20,2,3$

EQEB＂DEINT HT－E：LOUE WY：AT

；AT E，12；＂ODPUTER
1000 DATA $\mathrm{BD} \cdot \mathrm{O}$
100 D DTA 10 IW， $1 . E T$
1004 DATH D，ED，
IDEE DATA－IW，IW，1．57
$100 B$ DATA－ $8,0,0,0,10,10$
1010 DATH $-10,-10,1.57$
1014 DATH 10，10，1．57
1020 DATH IEO 0
$102 \mathrm{DATH} 15,15,1,57$
1024 DATH R，55，
$102 \mathrm{DATG}-15$ 15．1．57
1003 DATH－100， 0.5
1030 DATA－1E DRTH 0 ES 1.57
1034 DRTG 15，15， 1.57
9990 ETOF
3

## 2068 FUN

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